

ABSTRACT OF THE DISCLOSURE

A system and method for transmitting packet data to a hybrid mobile terminal upon inter-system handoff is provided. The terminal communicates with High Rate Pack Data (HRPD) and voice mobile networks. A Packet Control Function (PCF) system converts received data for transmission to the terminal into Generic Routing Encapsulation (GRE) packet data, stores the GRE packet data combined with a GRE packet key in an active queue, transmits it to an access network, and stores packet data stored in the active queue in a dormant queue when receiving a link release message from the access network. The access network converts GRE packet data received from the PCF system into an Radio Link Protocol Data (RLP) packet, stores it in combination with a GRE packet sequence number, and transmits it to the terminal. When detecting air link loss with the terminal, the access network creates and transmits a link release message including a GRE packet sequence number that has not been transmitted to the terminal.